PAPER NO. 30

Case 1:04-cv-01373-KAJ Document 305-5 Filed 05/23/2006 Page 2 of 33



11-8-82

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Daniel A. Beaulier

Serial No.: 018,786

Filed: February 24, 1987

For: ELECTRONIC STILL STORE WITH HIGH SPEED SORTING AND METHOD OF OPERATION

Group Art Unit: 262 Examiner: D. Harvey Attorney Docket No .: AV-3033 N2

Thereby certify that this correspondence is being deposited with the United States Pestal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washing-

ton D. C. 20231, on Oct. 5. 1988

George B. Almeida, Reg. # 20,696

AMENDMENT UNDER 37 CFR 1.116

RECEIVED

Hon. Commissioner of Patents and Trademarks 56 Washington, D.C. 20231

OCT 2 4 1988

01-1771

GROUP 260

Dear Sir:

In response to the Office Action dated July 22,1988 finally rejecting the claims, and as provided by 37 CFR 1.116, entry of the following amendment as placing the above-identified application in condition for allowance, or in better form for appeal, is respectfully requested.

IN THE CLAIMS

Claims 16, 17 please cancel without prejudice.

7,18, (twice amended) An apparatus for storing video pixel data representing video images of a first resolution and, for each each of the images at said first resolution, a

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corresponding video image at a second resolution_comprising:

random access memory means for individually storing video pixel data representing one of a succession of full size images at said first resolution and a corresponding reduced size version thereof at said second resolution;

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bulk memory means for receiving said video pixel data from said random access memory means and for storing said succession of full size images and the corresponding reduced size versions thereof, and for outputting upon a user's command, either a selected one of the successive full size images or selected ones of [only] the corresponding reduced size versions thereof for direct transfer to, and storage back in, said random access memory means; and

means responsive to said random access memory

means for selectively generating one of said corresponding
reduced size versions from the respective full size image in
said random access memory means, and for transferring the
video pixel data representing said full size image and the
corresponding reduced size version back [image] to the
contents of said [memory means via said] random access
memory means.

Claim 19, line 24, after "resolution" insert
--directly back--;

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line 44, after "storage memory" insert
 --directly--

Claims 20, 21, please cancel without prejudice.

(twice amended) A system for storing video data representing video images which are displayable as rasters of vertically distributed horizontal lines, each represented video image normally occupying a raster of selected vertical and horizontal size, the system comprising:

J2 cont a video image size reducer having an input for receiving video data representing a video image corresponding to the selected raster size and for generating video data representing a reproduction of said video image at a selected fractional-size of said selected raster size;

a first store for receiving video data for storage and for providing video data therefrom, said first store having a capacity for storing the video data representing video image corresponding to the selected raster size simultaneously together with video data supplied by said video image size reducer representing said reproduction of video image at the selected fractional-size;

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a second store for receiving and storing both the stated in video data from the first store and for providing video data therefrom directly to the first store, said second store further storing video data representing a capacity for storing video data representing a plurality of video images each corresponding to the selected

reproductions of each video image at the selected fractional
size of said selected raster size; and

means for selectively transferring from said

second store directly to said first store either each video data representing of the plurality of video images

corresponding to the selected raster size, or said video data representing to the selected raster size, or said video data representing to the selected raster size of said selected video image at the selected fractional-size of said selected raster size.

Claim 26, please cancel without prejudice.

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(amended) A method of storing video pixel data for access and display comprising:

providing data sets for a plurality of full size images at a first spatial resolution;

generating, from the data sets of the full size images, second data set [s] representing a corresponding plurality of reduced size reproduction images at a second lower spatial resolution;

storing both the data sets of the plurality of full size images and the data set[s] of the corresponding plurality of reduced size reproduction images in respective selected groups of storage locations; and selectively accessing [either] one of the data.

selectively accessing [either] one of the data.

representing one and a data set representing one sets of the plurality of full size images, or the set [s] of

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13 concl the corresponding plurality of the reduced size reproduction images, simultaneously.

Please add the following new Claims 30 and 31 to replace original Claims 20 and 26 respectively.

An apparatus for storing video pixel data as at least one full size image at a first resolution, and at least one reduced size image thereof at a second lower resolution, comprising:

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random access memory means having an input port and an output port, for storing the video pixel data presented at the input port;

said video pixel data representing the full size video image at a first resolution being stored in a first group of memory locations in said random access memory means;

bulk storage memory for also storing the video pixel data and for presenting selected groups of video data at said input port for storage by said random access memory means;

size reducing means responsive to said random

access memory means for receiving said video pixel data

stored in said random access memory means representing said

full size image at said first resolution, and for reducing

full size image at said first resolution, and for reducing

said image to the reduced size image at the second lower

resolution, and for supplying said reduced size image at

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said second resolution to said random access memory means in a second group of memory locations therein;

control means coupled to said random access memory means, to said bulk storage memory and to said size reducing means, for causing said size reducing means to generate said reduced size image at said second resolution and to supply same to said random access memory means in said second group of memory locations;

said control means further causing the transfer of the full size and reduced size video pixel data from said random access memory means to said bulk storage memory for storage, and for causing the selective transfer from said bulk storage memory into said random access memory means of either said full size image at said first resolution or said reduced size image at said second lower resolution; and

wherein said control means also determines the selective transfer of said reduced size image at said second resolution from said size reducing means into said bulk storage memory via the random access memory means.--

A method of storing video pixel data for access and display comprising:

providing data sets for a plurality of full size image at a first spatial resolution, wherein each one of the full size images occupies upon display a raster of selected vertical and horizontal size;

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generating, from the data sets of the full size images, second data sets representing a corresponding plurality of reduced size reproduction images at a second lower spatial resolution;

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storing both the data sets of the plurality of

full size images and the data sets of the corresponding

plurality of reduced size reproduction images in respective

selected groups of storage locations;

selectively accessing one of the data sets of the plurality of full size images, of the sets of the corresponding plurality of the reduced size reproduction images simultaneously;

wherein the step of accessing further includes,

retrieving the plurality of reproductions of each video

images storing the plurality of reproductions in a random

access memory, and outputting the stored plurality of

retrieved images

reproductions as a mosaic of reproduction images occupying a

raster of the selected vertical and horizontal size.--

REMARKS

By this amendment, Claims 16, 17, 20, 21 and 26 are cancelled without prejudice, Claims 18, 19, 23, are variously amended and Claims 20 and 26 are re-written as new Claims 30 and 31, respectively, to make them independent and to include all the limitations of the respective base claim, as suggested by the Examiner. Applicant notes with

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appreciation the allowance of Claims 2, 4, 6, 7, 15, 27 and 28 and the indication of allowability of Claims 20 and 26 if re-written.

In his Office Action, the Examiner finally rejected Claims 3, 22, 29 under 35 USC 112, second paragraph, as indefinite; finally rejected Claims 16-19, 21, 23-26 under 35 USC 102(b) as anticipated by Taylor et al; indicated the allowability of Claims 20, 26 if re-written, and allowed Claims 2, 4, 6, 7, 15, 27 and 28.

Regarding the rejection under 35 USC 112, applicant has deleted the word "either" from Claim 29, line 13, and added a comma (,) to line 14, thereby clarifying that the accessing is done to one of the... full size images, or to the reduced size reproduction images in a set simultaneously. Thus the confusion is believed removed.

Regarding the Examiner's indication that the Claims 3 and 22 language of one-fourth the spatial resolution would cause the reduced images also to have one-fourth the size, applicant respectfully refers in particular to page 6, lines 14-18, wherein is stated that ,"Because of the two dimensional nature of a video image, a quarter size image defined by video having one-fourth the spatial resolution of a full size image requires one-sixteenth the storage capacity of a full size, full

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spatial resolution image." (See also page 7, lines 10-14). Thus the language in the Claims 3 and 22 is, in fact, correct and definite. One-fourth the spatial resolution refers to each dimension, whereby if a picture (image) is one-fourth the width (horizontally) and one-fourth the height (vertically) it obviously takes up one-sixteenth of the full picture raster. That is, sixteen of the one-fourth resolution images would fit on the raster. Thus, applicant respectfully submits the language of Claims 3 and 22 is definite, and requests that the rejection thereof under 35 USC 112 be withdrawn.

Regarding the rejection of Claims 16-19, 21 and 23-26 under 35 USC 102 (b), applicant respectfully submits that the remaining Claims 18, 19, 23 and 26 (new Claim 31) are not fully met by the cited reference to Taylor et al. For example, Claim 18 recites, inter alia, a random access memory means (frame store 22) for individually storing...succession of full size images...and a corresponding reduced size version thereof at said second resolution (underlining added). Taylor et al fails to describe and does not intend the storage of both a reduced size and a full size image in his frame store (14/24 or 124/125) in the manner of applicant. In fact, any size reduction, and thus reduced size image, is made on the full size image only at the time the latter is transferred from the disk storage (18/20) to the frame store (24/124/125) as

depicted in FIG'S 5, 18 and 19, or from the frame store to the disc storage as depicted in FIG. 19. Applicant's invention on the other hand, as described and claimed, provides image reduction via his size reducer (26) coupled only to the frame store (22), and which receives the full size image only from the frame store whenever there is no reduced size image, and which then returns the reduced size image directly back to the frame store for storage thereof simultaneously with the corresponding full size image.

Contrary to the Examiner's statement in page 3, paragraph 3(a), of his Office Action, Taylor et al does not teach or imply that that his size reducer "does not necessarily provide expansion or reduction," and that "the size reducer may pass the image unchanged." Applicant has carefully reviewed the patent and fails to find therein any such description or implication. In the embodiments which include the size reducer, Taylor et al specifically employs an image size change each time a full size image is transferred between storage devices, and fails to imply that the size reducer may pass the image unchanged. If no size reduction is to be made, Taylor et al specifies merely omitting the size changing processor entirely (Col 5, lines 54-57). In any event, Taylor et al fails to store both the full size image and its reduced size version in his frame store as described and claimed by applicant.

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In paragraph 3(b), page 3, of the Office Action, the Examiner notes that Taylor et al provides a size reducer output which is fed back to the frame store (but) via the disc store. Such a configuration fails to anticipate applicant's circuit configuration, wherein the size reducer 26 is directly coupled (only) to the frame store 22. This configuration allows applicant the advantages of high speed transfer of multiple, reduced size images in a single frame of video data. In the configuration of FIG'S 5, 18 or 19, Taylor et al must pass a frame of video data through his size changer 23 prior to supplying his frame store, whereupon he then accesses the frame store. Applicant respectfully submits that Taylor's use of a size changer between the two stores is an integral feature of his system, and that the re-arrangement thereof in the manner of applicant's system is made apparent only through hindsight and by application of the teachings of applicant.

Accordingly, Claims 18, 19 and 23 are variously amended herewith to further clarify the language thereof over the reference to Taylor et al. Claim 18 recites inter alia; a "random access memory means for... storing video pixel data representing... full size images... and a corresponding reduced size version thereof at said second resolution"; bulk memory means which stores both size images and which transfers either size of the images directly back to the random access memory means, with no other circuit

therebetween; and means for generating the reduced images from the full size images and returning both directly back to the contents of the random access memory means. Taylor et al fails to teach the above features of storing both image sizes simultaneously in the random access memory, the direct transfer of images between the disc storage and random access memory, or the transfer of images directly between the size reducer and only the random access memory.

Likewise, Claims 19 and 23 also recite the above features in differing language and terms, and thus are not anticipated by Taylor et al for the same reasons given above.

Claims 20 and 26 have been re-written as new Claims 30 and 31 as suggested by the Examiner, to include the limitations of the respective base claim, and new Claim 31 has been amended to overcome the 112 rejection as discussed above. Accordingly, applicant respectfully submits that claims 3,18,19, 22, 23, 29, 30 and 31, along with (allowed) Claims 2, 4, 6, 7, 15, 27 and 28, are in condition for allowance, which action is earnestly solicited.

If Examiner finds slight differences that can be resolved by a telephone interview, Applicant hereby requests

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leave for such interview by telephoning the undersigned collect at (415) 367-3331.

If the Examiner persists in his final rejection of the subject application, applicant respectfully requests entry of the amendments for purposes of appeal.

Respectfully submitted,

AMPEX CORPORATION

George B. Almeida Agent of Applicant

Registration No. 20,696

Dated: October 5, 1988 401 Broadway, M.S. 3-35 Redwood City, CA 94603-3199



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EMIRE	IN THE UNITED STATES I	PATENT AI	ND TRADEMAR	K OFFICE
In re ap	oplication of: Daniel A. Be	aulier		
Serial I		Group No.:	262	
Filed:	February 24, 1987	Examiner:	D. Harvey	
For:	ELECTRONIC STILL STO AND METHOD OF OPERAT	RE WITH		SORTING
Comm	issioner of Patents and Tradeπ	narks		_
Washir	ngton, D.C. 20231			RECEIVED
				OCT 2 4 1988
	AMENDMI	ENT TRAN	SMITTAL	GROUP 260
1. T	ransmitted herewith is an amend	ment for this	application.	
	•	STATUS		
2. A	pplicant is			
	a small entity — verified state	ment:		
	attached.			
	already filed.			
*	other than a small entity.			
	CERTIFICATE C	OF MAILING (37	' CFR 1.8a)	
the United	ertify that this paper (along with any refer State Postal Sevice on the date shown to to the: Commissioner of Patents and Tran	pelow with suffic	cient postage as first	d) is being deposited with class mail in an envelope
	4	Georg	e B. Almeio	
	0/5/00	(Type-or print	name of person maili	ng paper)

(Amendment Transmittal [9-19]—page 1 of 4)

EXTENSION OF TERM

NOTE: "Extension of Time in Patent Cases (Supplement Amendments) — If a timely and complete response has been filed after a Non-Final Office Action, an extension of time is not required to permit filing and/or entry of an additional amendment after expiration of the shortened statutory period.

If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run." Notice of December 10, 1985 (1061 O.G. 34-35).

NOTE: See 37 CFR 1.645 for extensions of time in interference proceedings and 37 CFR 1.550(c) for extensions of time in reexamination proceedings.

3. The proceedings herein are for a patent application and the provisions of 37 CFR 1.136 apply

(complete (a) or (b) as applicable)

			(,	complete (a) or (b) as applica	ible)
(a)			plicant petitions ecked below:	for an extension of time	for the total number of month
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an	addi	tior	al extension of	time is required please co	onsider this a petition therefor.
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	OR								
)	extension of	of 1	term	is	required.	However.	this	condi-	

(b) Applicant believes that no tional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

(Amendment Transmittal [9-19]—page 2 of 4)

FEE FOR CLAIMS

The fee for claims has been calculated as shown below:

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INDEP.	10	MINUS	 9	= 1	x17=	\$		x34=	\$	34
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(d) [স্ত্র Total addit	tional fee	for claims requ	ired \$	34.00					
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6. 🔀 If any additional extension and/or fee is required charge Account No.

(Amendment Transmittal [9-19]—page 3 of 4)

If any additional fee for claims is required, charge Account No. 01-1771

Reg. No.:

20,696

Tel. No.: (419) 367-3331

SIGNATURE OF ATTORNEY

George B. Almeida Type or print name of attorney

401 Broadway

P.O. Address

Redwood City, CA 94063

(Amendment Transmittal [9-19]—page 4 of 4)

PAPER NO. 31



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICAT	чт	ATTORNEY DOCKET NO.
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RICHARD P. LANGE AMPEX CORP ... 401 BRDADWAY, MS 3-35 REDHOOD CITY, CA 94043

EXAM	IINER
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ART UNIT	PAPER NUMBER
262	3/

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	DATE MAILED:
EXAMINER INTERVIEW SUMMARY REC	ORD 11/07/88
All participants (applicant, applicant's representative, PTO personnel):	
(1) Mr. George B Almeida (3)	
Date of interview	
Type: Telephonic Personal (copy is given to applicant applicant's representati	ne).
Exhibit shown or demonstration conducted: Yes No. If yes, brief description:	
Agreement \mathbb{A} was reached with respect to some or all of the claims in question. \square was not reconstructed as $\mathbb{A} = \mathbb{A} = \mathbb{A}$.	sched.
Claims discussed: 18,17, 195; Orio Q	
Identification of prior art discussed:	
Description of the general nature of what was agreed to if an agreement was reached, or any other of	
changes to overcome section 1	2 problen
(con man . # 3-1)	V
Ste jugar # 30)	
(A fuller description, if necessary, and a copy of the amendments, if available, which the exami attached. Also, where no copy of the amendments which would render the claims allowable is avail	ner agreed would render the claims allowable must be able, a summary thereof must be attached.)
Unless the paragraphs below have been checked to indicate to the contrary, A FORMAL WRITT NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW (e.g., items 1-last Office action has already been filed, then applicant is given one month from this interview date	7 on the reverse side of this form). If a response to the
☐ It is not necessary for applicant to provide a separate record of the substance of the interview	v.
Since the examiner's interview summary above (including any attachments) reflects a com requirements that may be present in the last Office action, and since the claims are now all response requirements of the last Office action.	plete response to each of the objections, rejections and owable, this completed form is considered to fulfill the
y and the second se	
PTOL-413 (REV. 1-84)	ner's Signature

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PAPER NO. 32



UNITED STAT: "PARTMENT OF COMMERCEN SUM CANDING Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 28-17-11

SERIAL NUMBER	FILING DATE	FIRST NAME	D APPLICANT		ATTORNEY DOCKET NO.
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DATE MAILED:

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NOTICE OF ALLOWABILITY

PARTI. // r	1011/6
1. X This communication is responsive to THE AMENG	MENT TILED 10/7/88
All the claims being allowable, PROSECUTION ON The herewith (or previously mailed), a Notice Of Allowance course.	HE MERITS IS (OR REMAINS) CLOSED in this sipplication. If not included And Issue Fee Due or other appropriate communication will be sent in due
3. \$\infty\$ The allowed claims are 2-4 6 7 15 18 18	2223 Rud 27-31
4. The drawings filed on / / / / /	are acceptable.
	der 35 U.S.C. 119. The certified copy has [_] been received. [_] not been
6. Note the attached Examiner's Amendment.	
7. X Note the attached Examiner Interview Summary Record.	PTOL-413.
8. \square Note the attached Examiner's Statement of Reasons for	Allowance.
9. Note the attached NOTICE OF REFERENCES CITED, PT	O-892.
10. Note the attached INFORMATION DISCLOSURE CITATION.	ON, PTO-1449.
PART II.	
	mply with the requirements noted below is set to EXPIRE THREE MONTHS e to timely comply will result in the ABANDONMENT of this application. FR 1.136(a).
 Note the attached EXAMINER'S AMENDMENT or NOTI or declaration is delicient. A SUBSTITUTE OATH OR DEC 	ICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath CLARATION IS REQUIRED.
 APPLICANT MUST MAKE THE DRAWING CHANGES IN OF THIS PAPER. 	NDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE
a. Drawing informalities are indicated on the NOTICE CORRECTION IS REQUIRED.	E RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No.
b. The proposed drawing correction filed on ### REQUIRED.	has been approved by the examiner. CORRECTION IS
 c.	e examiner in the attached EXAMINER'S AMENDMENT, CORRECTION IS
 d. Formal drawings are now REQUIRED. 	
Any response to this letter should include in the upper right AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE N	hand corner, the following information from the NOTICE OF ALLOWANCE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.
Attychments:	
Examiner's Amendment	Notice of Informal Application, PTO-152
Examiner Interview Summary Record, PTOL-413	 Notice re Patent Drawings, PTO-948
Reasons for Allowance	_ Listing of Bonded Draftsmen
Notice of References Cited, PTO-892	_ Other
Information Disclosure Citation, PTO-1449	

PTOL-37 (REV. 2-85)

USCOMM-DC 85-3744

Serial No. 018,786 Art Unit 262

- Ar extension of time under 37 CFR 1.136(a) is required in order to make an Examiner's Amendment which places this application in condition for allowance. During a telephone conversation conducted on 10/27/88, Mr. George B. Almeida requested an extension of time for one month(s) and authorized the Commissioner to charge Deposit Account No. 01-1771 the required fee of \$56.00 for this extension and authorized the following Examiner's Amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.
- 1) In claim 18, line 6, "individually" has been deleted.
- 2) In claim 18, line $\frac{1}{23}$, "said full size image" has been deleted.
- 3) In claim 19, line 18, --directly-- has been inserted after "for".
- 4) In claim 23, line 7, "having a capacity for" has been deleted.
- 5) In claim claim 23, line 13, "a" has been changed to --the--. (
- 6) In claim 23, line 15, --the-- has been inserted before "video".
- 7) In claim 23, line 16, "a" has been changed to --the--.
- 8) In claim 23, line 18, "both" has been deleted.

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- 9) In claim 23, line 19, "from" has been changed to --stored in-f.
- 10) In claim 23, line 21, "having a capacity for" has been changed to --further --.
- 11) In claim 23, line 22, --additional-- has been inserted before "video".
- 12) In claim 23, line 23, "the" has been changed to --additional --.
- 13) In claim 23, line 24, "of each video image" has been deleted.
- 14) In claim 23, line 27, the second occurrence of "said" has been deleted.
- 15) In claim 23, line 29, "said" has been deleted.
- 16) In claim 23, line 30, "the" has been changed to --a--.
- 17) In claim 23, lines 30 and 31, "of each video image" has been deleted.
- 18) In claim 29, line 6, the first occurrence of "a" has been deleted.
- 19) In claim 29, line 6, "set" has been changed to --sets--.
- 20) In claim 29, line 10, "set" has been changed to --sets--.
- 21) In claim 29, line 13, "one of the" has been changed to -- from the storage locations a--.
- 22) In claim 29, line 14, "sets" has been changed to --set representing one--.
 - 23) In claim 29, line 14, "or the set" has been

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changed to --and a data set representing one--.

- 24) In claim 30, lines 19 and 20, "reducing said image to" has been changed to --producing reduced size pixel data representing-- λ .
- 25) In claim 30, line 28, "same" has been changed to --said reduced image --.
- 26) In claim 31, line 8, the first occurrence of "a" has been deleted.
- 27) In claim 31, line 8, "set" has been changed to --sets--.
- 28) In claim 31, line 12, "set" has been changed to --sets--.
- 29) In claim 31, line 15, "one of the data sets of" has been changed to --from the storage locations a data set of one of --.
- 30) In claim 31, line 16, "or the set" has been changed to -- and one of the sets--.
- 31) In claim 31, line 20, "the" has been changed to --a--.
- 32) In claim 20, lines 20 and 21, "reproductions of each video image" has been changed to --reproduction images--.
- 33) In claim 31, line 21, --retrieved-- has been inserted after "the".
- 34) In claim 31, line 21, "reproductions" has been changed to --images--.
- 35) In claim 31, line 23, "reproductions" has been changed to --retrieved images--.
- Any inquiry concerning this communication or

Serial No. 018,786

-5-

Art Unit 262

earlier communications from the examiner should be directed to David E. Harvey whose telephone number is (703) 557-6268.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 557-3321.

(703) 557-6268

11-01-88

PRIMARY EXAMINER ART UNIT 262

AX061758

PTOL-85 IREV 4 86



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 2023 1

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

RICHARD P. LANGE AMPEX CORP., 401 BROADNAY, MS 3-35 REDWOOD CITY, CA 94863

PATENT AND TRADEMARK OFFICE COPY

All communications regarding this application should give the serial number, date of filing, name of applicant, and batch number.

Please direct all communications to the Attention of "OFFICE OF PUBLICATIONS" unless advised to the contrary.

The application identified below has been examined and found allowable for issuance of Letters Patent. PROSECUTION ON THE MERITS IS CLOSED.

	SC/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED
	07/018:786	02/24/87	015	HARVEY, D	262	11/08/88
First Named Applicant		·				

TITLE OF INVENTION

ELECTRONIC STILL STORE WITH HIGH SPEED SORTING AND METHOD OF OPERATION

Ī	ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
	AV-3033N1	358-160.000	NZZ	UTILITY	מא	\$560.00	02/08/89

The amount of the issue fee is specified in 37 C.F.R. 1.18. If the applicant qualified for and has filed a verified statement of small entity status in accordance with 37 C.F.R. 1.27, the issue fee is one-half the amount for non-small entities. The issue fee due printed above reflects applicant's status as of the time of mailing this notice. A verified statement of small entity status may be filed prior to or with payment of the issue fee. However, in accordance with 37 C.F.R. 1.28, failure to establish status as a small entity prior to or with payment of the issue fee precludes payment of the issue fee in the amount so established for small entities and precludes a refund of any portion thereof paid prior to establishing

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE as indicated above. The application shall otherwise be regarded as ABANDONED. The issue fee will not be accepted from anyone other than the applicant, a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office. Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of the notice of allowance, the issue fee is charged to the deposit account at the time of mailing of this notice in accordance with 37 C.F.R. 1.311. If the issue fee has been so charged, it is indicated above.

In order to minimize delays in the issuance of a patent based on this application, this Notice may have been mailed prior to completion of final processing. The nature and/or extent of the remaining revision or processing requirements may cause slight delays of the patent. In addition, if prosecution is to be reopened, this Notice of Allowance will be vacated and the appropriate Office action will follow in due course. If the issue fee has already been paid and prosecution is reopened, the applicant may request a refund or request that the fee be credited to a deposit account. However, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to a deposit account.

In the case of each patent issuing without an assignment, the complete post office address of the inventor(s) will be printed in the patent heading and in the Official Gazette. If the inventor's address is now different from the address which appears in the application, please fill in the information in the spaces provided on PTOL-85b enclosed. If there are address changes for more than two inventors, enter the additional addresses on the reverse side of the PTOL-85b.

The appropriate spaces in the ASSIGNMENT DATA section of PTOL-85b must be completed in all cases. If it is desired to have the patent issue to an assignment must have been previously submitted to the Patent and Trademark Office or must be submitted not later than the date of payment of the issue fee as required by 37 C.F.R. 1 334. Where there is an assignment, the assignee's name and address must be provided on the PTOL-85b to ensure its inclusion in the printed patent.

Advance orders for 10 or more printed copies of the prospective patent can be made by completing the information in Section 4 of PTOL-85b and submitting payment therewith. If use of a deposit account is being authorized for payment, PTOL-85c should also be forwarded. The order must be for at least 10 copies and must accompany the issue fee. The copies ordered will be sent only to the address specified in section 1 or 1A of party set.

PTQL 85b	
Note attached communication from the Examiner	IMPORTANT REMINDER
	Patents issuing on applications filed on or after Dec. 12,
This notice is issued in view of applicant's communication filed	1980 may require payment of maintenance fees. See 37 CFR 1.20 (e) — (j).

PAPER NO. 34

RECEIVED

Page 29 of 33

PATENT /

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CORE

In re application of

Daniel A. Beaulier

Serial No.: 018,786

Filed: February 24, 1987

For: ELECTRONIC STILL STORE

WITH HIGH SPEED

SORTING AND METHOD OF

OPERATION

ploence section Group Art Unit: 262 Examiner: D. Harvey Attorney Docket No.:

AV-3033 N2 I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner of Patents and Trademarks, Washing-Jec. 21, 1988 ton, D.C. 20231, or

George B. Almeida, Reg. # 20,696

DATE

AMENDMENT UNDER 37 CFR 1.312

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

Dear Sir:

In response to the Notice of Allowance dated November 8, 1988, and as provided under 37 CFR 1.312, please amend the above-identified application as follows, without withdrawing it from allowance.

IN THE SPECIFICATION:

after the title please insert the following single Page 1, sentence paragraph.

-- This application is a Continuation of application SN-740,297 filed May 31, 1985 and now abandoned, which was a Continuation of application SN-483,327 filed April 8, 1983 and now abandoned -- .

REMARKS

Applicant notes with appreciation the allowance of Claims 2-4, 6, 7, 15, 18, 19, 22, 23 and 27-31, and thanks the Examiner for the amendments suggested by him by telephone interview of October 27, 1988 and entered via his Examiner's Amendment of November 7, 1988. The extension of time for one month and the authorization for payment made during the phone interview is also confirmed.

Applicant includes herewith a transmittal letter forwarding a new formal sheet of the sole drawing with the amendment previously proposed, and requests entry thereof.

Issuance of the patent is respectfully requested.

Respectfully Submitted,

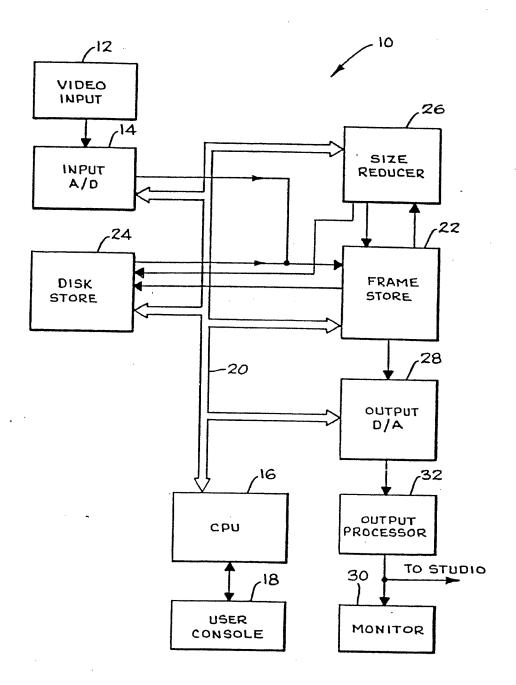
AMPEX CORPORATION

of Applicant Registration No. 20, 696

Dated: December 21, 1988

401 Broadway, M.S. 3-35 Redwood City, CA 94063-3199

GAU= 262 USSN 018,786 AV-3033 NT 1 SHEET







IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Daniel A. Beaulier

Serial No. 018,786

Filed: February 24, 1987

For: Electronic Still Store With High Speed Sorting And Method Of Operation Group Art Unit: 262 Examiner: D. Harvey Attorney Docket No.: AV-3033 N2

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner of Patents and Trademarks, Washing-

ton, D. C. 20231, or Vec 21 1989

Sorgal B. Almeida, Reg. # 20,696 DATE

Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Transmitted herewith in the above-identified application is/are

Amendment Under 37 CFR 1.312

- (x) No fee is required.
- () Please charge the fee of \$ to Deposit Account No. 01-1771. A duplicate copy of this sheet is enclosed.
- (X) The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required by this paper, or credit any overpayment to Deposit Account No. 01-1771. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

AMPEX CORPORATION

By hove b Ulmerda

George B. Almeida

Redistration No. 20,696

401 Broadway, M.S. 3-35 Redwood City, CA 94063-3199

Dated: December 21, 1988

REV (120785)